

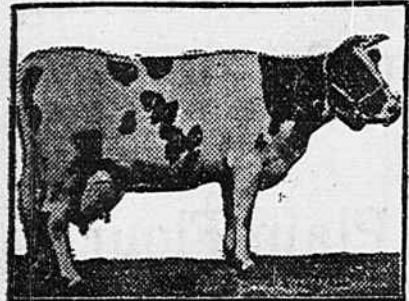
# DAIRY FACTS

## GUERNSEY GAINING IN FAVOR

Deep and Prolonged Milking Qualities Make This Type of Dairy Cow Valuable Acquisition.

The average Guernsey cow will weigh about 1,000 pounds, with the bulls weighing 200 to 300 pounds heavier, says the Agriculturist. The head of the Guernsey cow is long, with a slender neck. The body is large and deep, showing ample capacity for disposing of roughage. The flanks are thin. The muzzle of the Guernsey cow is usually small, curved and wavy and may show yellow at the base. One of the distinguishing characteristics of the Guernsey is the large secretion of yellow coloring matter in the skin, showing particularly where the hair is white, as around the ears and eyes and on the udder and flanks.

The Guernsey has no pronounced weak points. The addition of Guernsey blood in crossing with cows of mixed breeding will result in a higher milk flow and in a richer milk. The deep and prolonged milking qualities of the pure-bred Guernsey, together with the adaptability to the conditions of the average farm, make this type of dairy cow a formidable competitor to the breeds which have a wider and



Daisy Grace Del Kol.

greater distribution. The production of milk that tests 4 per cent., and even 5 per cent, and sometimes 6 per cent, means much when taken in connection with the fact that the Guernsey is an economical producer. High production, low cost, high test, adaptability to average farm conditions, together with no pronounced weak points—these are the factors which make the Guernsey increasingly popular.

## BEST TIME FOR THE CALVES

Autumn Is Favored on Account of Slack Work Around Farm—Danger of Scouring Is Less.

Calves may be reared better and more economically when they come in the autumn rather than in the spring and yet this style of breeding which had something of a vogue 20 years ago is still lagging. In the winter season the boys have ample time to attend to the calves and can give every attention to the amount of each kind of food required to keep them humping along.

When calves are raised essentially on skim milk and adjuncts, the chief danger is that they may be more or less affected with indigestion. Now when the calves are on dry food such as is given to them in the winter season this trouble is reduced to a minimum. If skim milk is fed in large quantities and some flaxseed meal is fed at the same time when the calves are on succulent pastures, it is almost impossible to prevent them from scouring.

In winter when on dry foods this danger is much less imminent. The calves may be carried through the winter in good form and they are vigorous animals, if properly fed, when the pastures are ready in the spring.

## REMOVING ODORS FROM MILK

Federal Investigators Have Discovered Method to Remove Unpleasant Smells and Tastes.

A method has been discovered by the federal investigators for removing disagreeable odors and flavors from milk. The taste caused by cows eating wild onions or garlic can be removed by blowing filtered and washed air through the milk for thirty to sixty minutes, according to the strength of the flavor to be removed.

It is necessary to heat the milk to a temperature of 145 degrees, as air blown through cold milk in a similar manner does not remove the disagreeable flavor. It also has a tendency to turn the fat into butter, it was found that the onion flavor is removed more quickly when milk is heated to 160 degrees, but this tends to produce a cooked taste and also reduces the cream line. In the case of cream with flavors of this kind, the same method can be used, except that it requires a slightly longer treatment. The loss in evaporation by using this method amounts to two or three per cent.

**Benefits of Silage.**  
The silo makes it possible to raise more feed and to keep more cows on the same acreage and substitutes certainty for uncertainty in the management of the herd to an extent impossible in any other way.

# HORSES PIGS and CATTLE

## SHEEP NEED LITTLE CAPITAL

No Other Way of Investing Money on Farm That Comes Back So Profitably or So Soon.

Very little capital—that is, money—invested in sheep is called for, and there is no other way of investing it on any farm that comes back so profitably or so soon. One year's use only is called for before the money is coming back into the owner's hands, with its double interest.

The fleece will pay one interest on the cost and the lamb another, and if the sheep have been well selected there will be another interest paid back in their growth. The benefit to



Making Use of Sheep in Cleaning Up Weeds in Cornfield After Cultivation Stops.

the land will easily pay all the costs of a flock for the year's feeding, and, in general, this service to the owner of a flock from the year's feeding, and a field has been known to add so much to the next season's crop as to repay the whole amount of money cost of the sheep, but it is a mistake to start with too many.

Three sheep to the acre are sufficient for the land that can be appropriated for the feeding of them. Thus, if one has ten acres of land that can be used for a flock each year, 30 sheep only should be procured. It is an easy matter to add to the number if desired. But it is to be considered that the flock will grow very fast, doubling almost, under favorable conditions, every year, if well cared for, and the ewes are not more than three or four years old. It is a great mistake to make a start with a flock of old ewes, and is money and care wasted.

## BEST TREATMENT FOR COLIC

Improper Feeding Is Most Common Cause of Trouble—Physic of Salts or Oil Is Favored.

(By L. L. LEWIS, Oklahoma Experiment Station.)

Colic in horses and cattle is from various causes, but is more particularly due to sudden changes in feed or to eating more feed than can be easily digested by the animal at that time. The amount of feed that an animal may digest at one time under certain conditions may be entirely too much under other conditions. Since colic may be caused by so many different things, no one remedy will prove effective in all cases.

As a general rule, most of the colics that are seen in farm stock are due to improper feeding. In those cases the best general treatment that might be used would be to give as early as possible a physic of salts or oil. To relieve the pain seen particularly in spasmodic colic, the safest general treatment that can be used is to give from one to one and one-half ounce of chloral hydrate, dissolved in a pint of water, to which has been added one teaspoonful of ground ginger.

Do not give laudanum in such cases, as it only tends to produce constipation, and on this account is one of the poorest remedies that you can use.

## TREATMENT FOR HOG WORMS

Best Preventive Is to Give Animals Clean Troughs—Keep Away From Stagnant Water Pools.

To keep hogs free from worms they should at all times have a drink from clean troughs, feed from a clean floor and keep away from yards, wallows, manure piles, pastures and stagnant waters.

For worms, give eight grains of san-torine and five grains of calomel for every 100 pounds of body weight.

Give the medicines in a little slop after starving the pigs for 18 hours. Repeat in two weeks if thought necessary.

**Measuring Productivity.**  
The productivity of live stock is measured by the value of the returns to the farmer.

# Horticultural Points

## STOPPED THE APPLE BORERS

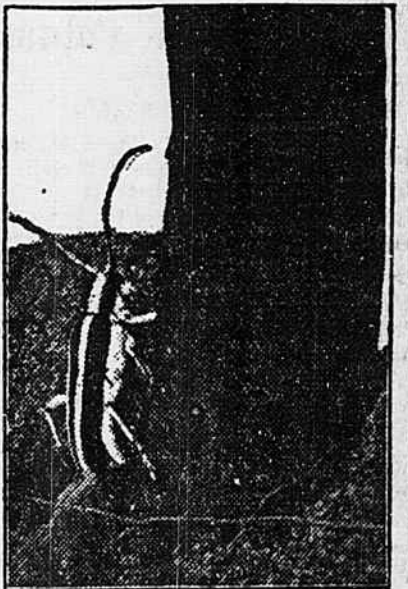
Injurious Little Insects Hunted With Knife and Probed With Wire—Wrapping Also Used.

(By VOLNEY ROGERS.)

Finding borers in my apple and peach trees some years ago, I hunted them with knife and probed with wire where unable to go with the knife. Where probing was resorted to I filled the probed hole tightly with putty, hoping to smother the enemy if still living.

In early May following I wrapped the trunks of all trees with several thicknesses of heavy paper, tying the paper well to the trees with twine, so that all trunks were protected from the ground up to the crotch.

With the peach I removed five or six inches of earth from the base of the trunk and wrapped below the surface, filling the earth back again over the paper. My purpose was to try to prevent the depositing of eggs that would become borers in the trunks



Adult Female of Round-Headed Apple Tree Borer in the Act of Depositing an Egg.

or at the base of the trees. I continued this practice of wrapping for a few years and after commencing it found no borers where the wrapping was done.

## SERIOUS DISEASE OF TREES

Fire-Blight Has Been Termed "Great Black Plague" of Fruit Industry—It Can Be Prevented.

(By J. H. CARMODY, Kentucky Experiment Station.)

Fire-blight is undoubtedly the most serious disease that confronts the fruit grower today. San Jose scale is no longer dangerous when trees are properly sprayed. The aphid is easily controlled as are all the other greatly feared troubles of the past. After all the other orchard troubles have been successfully met and conquered, it is very discouraging to see a promising crop of fruit ruined in a short time. In fact, blight has been termed the "great black plague" of the fruit industry. It has been estimated that it carries an annual loss of \$25,000,000 to the country.

Blight is a preventable disease, and in view of the tremendous losses occasioned by it, a systematic effort should be made to check it.

Blight is caused by a minute germ or organism that lives during the dormant season in cankers, resulting from infection of the previous season. These cankers are formed at the base of the fruit spurs, on the branches and in extreme cases on the larger limbs and trunk of the tree. Every fruit grower should acquaint himself with the appearance of the canker and destroy it as soon as noticed. If every canker could be disposed of, the blight could be held in control.

Fire-blight is a problem involving the community, hence, an organized endeavor should be made to check it. Learn to recognize the disease in its various stages, clean up the orchard and encourage your neighbor to do the same thing.

Do not be misled regarding the so-called "blight cures." There is no patent cure and no one should ever attempt to cure blight by spraying, inoculation, or soil doctoring. Insects, particularly aphids and ants, spread blight. Use the sprays against these if necessary.

## Saving the Trees.

The cementing of holes in trees is now quite common. On old estates, where trees have been showing holes in their trunks for years, they are now being cemented, both to add to the stability of the trunks and to arrest further decay. Huge trees with holes in their trunks large enough for a man to stand upright in are now filled with cement, the cement being painted the color of the bark.

**Two-Year-Old Trees Best.**  
It is a mistake to set out trees more than two years old. Many good orchardists prefer yearlings, but two-year-olds generally produce the best results.

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